

WHAT IS CLAIMED IS:

1. A thermosensitive stencil paper comprising a thermoplastic resin film and a porous resin layer which is provided on said thermoplastic resin film by coating a porous resin layer formation coating liquid comprising a water-in-oil emulsion of a resin on said thermoplastic resin film and drying said coating liquid.

2. The thermosensitive stencil paper as claimed in Claim 1, wherein said water-in-oil emulsion is prepared by use of an emulsifier.

3. The thermosensitive stencil paper as claimed in Claim 1, wherein said resin for use in said water-in-oil emulsion comprises a thermoplastic resin.

4. The thermosensitive stencil paper as claimed in Claim 3, wherein said thermoplastic resin is a polyurethane resin.

5. The thermosensitive stencil paper as claimed in Claim 3, wherein said thermoplastic resin is a polyvinyl butyral resin.

6. The thermosensitive stencil paper as claimed in Claim

10060450 013000

/ 1, wherein said porous resin layer has pores with a diameter of 5 μm or more therein, with said pores occupying an area of 4 to 80% of the entire surface area of said porous resin layer, provided that the pore diameter is obtained by converting the form of a pore into a true round.

7. The thermosensitive stencil paper as claimed in Claim 1, wherein said thermoplastic resin film exhibits a permeability of 1.0 to 157 $\text{cm}^3/\text{cm}^2 \cdot \text{sec}$ when perforations are made in said thermoplastic resin film corresponding to a solid image portion so that said perforations may occupy an area of 40% or more of the total area of said solid image portion.

8. The thermosensitive stencil paper as claimed in Claim 1, wherein said porous resin layer formation coating liquid further comprises a filler.

9. The thermosensitive stencil paper as claimed in Claim 1, wherein said thermosensitive stencil paper exhibits a bending rigidity of 5 mN or more.

10. The thermosensitive stencil paper as claimed in Claim 4, wherein said water-in-oil emulsion of said polyurethane resin is prepared in such a manner that

finely-divided particles are dispersed in a solution of said polyurethane resin to prepare a dispersion, said finely-divided particles being produced by allowing an active hydrogen containing polyfunctional compound to react with an organic polyisocyanate, and said dispersion is prepared into said water-in-oil emulsion using an emulsifier.

11. A method of producing a thermosensitive stencil paper comprising a thermoplastic resin film and a porous resin layer provided thereon, comprising the steps of coating on said thermoplastic resin film a porous resin layer formation coating liquid comprising a water-in-oil emulsion of a resin, and drying said coating liquid, thereby providing said porous resin layer on said thermoplastic resin film.

12. The method of producing a thermosensitive stencil paper as claimed in Claim 11, wherein said porous resin layer formation coating liquid is prepared in such a manner that said resin and an emulsifier are dissolved in a good solvent with respect to said resin to prepare a resin solution, and a non-solvent with respect to said resin is added dropwise to said resin solution with stirring to prepare said water-in-oil emulsion of said resin.

20060458-013003

13. The method of producing a thermosensitive stencil paper as claimed in Claim 11, wherein said porous resin layer formation coating liquid is prepared in such a manner that said resin is dissolved in a good solvent with respect to said resin to prepare a resin solution, and a non-solvent with respect to said resin which comprises an emulsifier is added dropwise to said resin solution with stirring to prepare said water-in-oil emulsion of said resin.

14. The method of producing a thermosensitive stencil paper as claimed in Claim 11, wherein said resin for use in said water-in-oil emulsion comprises a thermoplastic resin.

15. The method of producing a thermosensitive stencil paper as claimed in Claim 14, wherein said thermoplastic resin is a polyurethane resin.

16. The method of producing a thermosensitive stencil paper as claimed in Claim 14, wherein said thermoplastic resin is a polyvinyl butyral resin.

17. The method of producing a thermosensitive stencil paper as claimed in Claim 11, wherein said porous resin layer has pores with a diameter of 5 μ m or more therein, with said

pores occupying an area of 4 to 80% of the entire surface area of said porous resin layer, provided that the pore diameter is obtained by converting the form of a pore into a true round.

18. The method of producing a thermosensitive stencil paper as claimed in Claim 11, wherein said thermoplastic resin film exhibits a permeability of 1.0 to 157 cm³/cm²·sec when perforations are made in said thermoplastic resin film corresponding to a solid image portion so that said perforations may occupy an area of 40% or more of the total area of said solid image portion.

7

19. The method of producing a thermosensitive stencil paper as claimed in Claim 11, wherein said porous resin layer formation coating liquid further comprises a filler.

20. The method of producing a thermosensitive stencil paper as claimed in Claim 11, wherein said thermosensitive stencil paper exhibits a bending rigidity of 5 mN or more.

21. The thermosensitive stencil paper as claimed in Claim 15, wherein said water-in-oil emulsion of said polyurethane resin is prepared in such a manner that finely-divided particles are dispersed in a solution of said

polyurethane resin to prepare a dispersion, said finely-divided particles being produced by allowing an active hydrogen containing polyfunctional compound to react with an organic polyisocyanate, and said dispersion is prepared into said water-in-oil emulsion using an emulsifier.

200670" 85409667